

Wabaunsee County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 16 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wabaunsee County economy.¹

These 16 sectors have a total direct output of approximately **\$124.0 million** and support **733 jobs** in Wabaunsee County. Running the model for all 16 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wabaunsee County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	732.9	25.62%	\$25,491,475	19.02%	\$123,970,846	92.48%
Indirect Effect	80.8	2.82%	\$4,992,794	3.72%	\$10,491,876	7.83%
Induced Effect	20.6	0.72%	\$1,278,906	0.95%	\$2,437,024	1.82%
Total Effect	834.3	29.16%	\$31,763,175	23.69%	\$136,899,746	102.12%

As shown in the above table, agriculture, food, and food processing sectors support **834 jobs**, or **29.16%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$136.9 million**, roughly **102.12% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 16 agriculture, food, and food processing sectors is approximately **\$31.8 million**, or **23.69% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **23.69% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **474 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wabaunsee County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	474.3	\$43,062,750
All other crop farming	57.4	\$3,443,615
Canned fruits and vegetables manufacturing	44.6	\$21,996,826
Meat processed from carcasses	33.5	\$17,157,479
Grain farming	32.1	\$9,274,452
Dairy cattle and milk production	26.9	\$11,042,889
Landscape and horticultural services	26.4	\$1,243,981
Truck transportation	18.5	\$2,911,290
Oilseed farming	14.7	\$12,068,353
Greenhouse, nursery, and floriculture production	12.0	\$1,789,410

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$43.1 million** to the Wabaunsee County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	474.3	\$43,062,750
Canned fruits and vegetables manufacturing	44.6	\$21,996,826
Meat processed from carcasses	33.5	\$17,157,479
Oilseed farming	14.7	\$12,068,353
Dairy cattle and milk production	26.9	\$11,042,889
Grain farming	32.1	\$9,274,452
All other crop farming	57.4	\$3,443,615
Truck transportation	18.5	\$2,911,290
Animal, except poultry, slaughtering	2.9	\$1,977,747
Greenhouse, nursery, and floriculture production	12.0	\$1,789,410

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wabaunsee County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	14.7	\$12,068,352.90
Grain farming	32.1	\$9,274,452.36
Vegetable and melon farming	0.5	\$100,383.25
Fruit farming	1.9	\$179,065.99
Tree nut farming	0.2	\$26,657.64
Greenhouse, nursery, and floriculture production	12.0	\$1,789,409.55
All other crop farming	57.4	\$3,443,615.26
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	474.3	\$43,062,749.95
Dairy cattle and milk production	26.9	\$11,042,889.15
Poultry and egg production	0.1	\$62,905.54
Animal production, except cattle and poultry and eggs	4.5	\$460,636.10
Canned fruits and vegetables manufacturing	44.6	\$21,996,825.78
Animal, except poultry, slaughtering	2.9	\$1,977,747.00
Meat processed from carcasses	33.5	\$17,157,478.64
Bread and bakery product, except frozen, manufacturing	0.8	\$83,695.71
Landscape and horticultural services	26.4	\$1,243,980.92

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wabaunsee County, the retail sector was omitted.